

*A1* verified, for a non-homogeneous medium to be irradiated, by using a solid-body phantom having non-homogeneities.

---

*A2* 6. (Amended) Method according to claim 4, characterised in that different non-homogeneities are interchangeably inserted in the solid-body phantom.

7. (Amended) Method according to claim 4, characterised in that the steps a)-d) are carried out for at least three different non-homogeneity structures of the solid-body phantom, the first solid-body phantom having boundary layers between different materials, the second solid-body phantom having thin non-homogeneities and the third solid-body phantom having thick non-homogeneities.

8. (Amended) Method according to claim 1, characterised in that the accuracy of the calculation of the radiation dose data is verified by using an irregularly shaped phantom.

---

10. (Amended) Method according to claim 1, characterised in that

*A3*        a digital reconstruction of the phantom is calculated;  
          an image of the phantom is produced and compared with the calculated reconstructions to ascertain a discrepancy; and  
          it is concluded that there is an error in the calculation of the digital reconstructions if the discrepancy between the calculated reconstructions and the corresponding image exceeds a specific tolerance limit value.

---

*A4* 12. (Amended) Method according to claim 10, characterised in